

PROTECTING THE ENVIRONMENT AND PUBLIC HEALTH



IN THE U.S.-MEXICO BORDER REGION



Overcoming Binational Environmental Challenges

The U.S.-Mexico border region is home to over 15 million people who share natural resources, watersheds, and air basins that transcend political boundaries. Binational pollution impacts both sides of the border and necessitates a coordinated response. To improve and protect the environment and public health, the La Paz Agreement was signed by the Governments of Mexico and the United States in 1983, thus providing the foundation for cooperative efforts to address the complex and intertwined environmental issues along the U.S.-Mexico border.



Opening ceremony of the Border 2020 Program at Tijuana, Baja California, on August 8th, 2012

A Diverse U.S.-Mexico Border Region



- 15 million+ people borderwide
- 26 federally recognized U.S. tribes
- 6 national parks
- 4 high priority river basins
- 40+ U.S. counties and 80 MX municipalities
- 4 transboundary rivers into the U.S.
- 2,000 mile shared border

TIMELINE

Building from the La Paz Agreement, U.S. EPA and Mexico's SEMARNAT have implemented four successive binational programs to meet emerging environmental challenges in this dynamic region. Along the entire border, key stakeholders such as the 10 states, 26 federally recognized tribes and local partners have provided leadership and additional funding to implement projects that advance environmental protection and public health improvements while the population and economic activity have increased.

1983

The Basis for Binational Cooperation — La Paz Agreement

Recognizing the need to cooperate binationally on environmental and public health challenges in the border region, the Governments of the United States and Mexico signed the Agreement on Cooperation for the Protection and Improvement of the Environment in the Border Area (the La Paz Agreement), in the city of La Paz, Baja California Sur, Mexico, in 1983.



President Reagan of the U.S. and President de la Madrid of Mexico sign the La Paz Agreement

1992

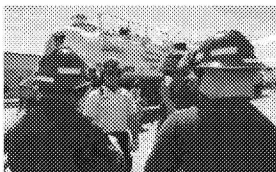
Integrated Border Environmental Plan (IBEP)

The first binational border program, IBEP, focused on enhanced environmental regulation and resulted in significant investments in infrastructure along the border. Although the binational environment improved, many projects were implemented at a federal scale, and the Program recognized the need to address environmental and health concerns on the border with more local involvement.

1996

Border XXI

Border XXI established a five-year bilateral effort which included additional federal partners to achieve its goals, engaged the 10 border states and U.S. tribes, and included over 40 public meetings to solicit input and identify local priorities. Border XXI established nine borderwide workgroups to address transboundary environmental issues. While the workgroups implemented many pilot projects benefitting communities, the Program objectives remained broad in nature.



Local emergency response sister cities were developed

2003

Border 2012

The Border 2012 Program set an ambitious ten-year plan that included specific and measurable environmental goals and objectives developed through public input. The Program took a bottom-up approach that continued engagement of state, tribal and local communities and operated through four new regional workgroups and numerous local taskforces to implement stakeholder-led projects.



Partnership with U.S. tribe and Necua Indigenous Community on waste management

2012

Border 2020

Border 2020 continues a bottom-up approach and tackles emerging environmental issues. Program goals were established binationally and seek to improve air and water quality, reduce waste, strengthen emergency preparation and response, promote environmental stewardship and address environmental health. These goals directly align with U.S. EPA's core programs, local priorities, and the original mandate from the La Paz Agreement to address the complex and on-going regional environmental challenges.



Improving water infrastructure in the Tijuana-San Diego region

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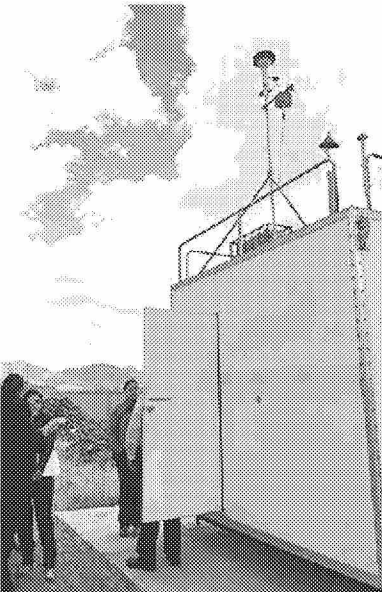
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Protecting Communities Borderwide

Improving the Air We Share

Many U.S.-Mexico border cities share binational air basins, where pollutants such as particulate matter (PM₁₀, PM_{2.5}) and ozone and its precursors (NO_x and VOC) travel across borders. Exposure to these pollutants can affect our hearts and lungs, triggering a variety of health problems, particularly to vulnerable populations with asthma. In the border region, ozone is problematic in the San Diego and Imperial Valley, California air basins while PM is a key concern in the El Paso, Texas air basin and Imperial Valley, CA.



Air quality monitoring inspection in San-Diego-Tijuana Border Region

In response, local binational task forces formed to coordinate and implement solutions such as improving and/or expanding monitoring networks, increasing data availability, and expanding public outreach, while states on both sides of the border identify mitigation strategies in air quality improvement plans (State Implementation Plans in the U.S. and ProAire plans in Mexico).

The border region has reduced emissions at ports-of-entry by reducing wait times for idling vehicles, and paving dusty roads and improving urban transport borderwide have resulted in the elimination of 170,000 tons per year of PM₁₀. Air monitoring from 2006 -2014 identified a decline in ozone exceedances in the San Diego and Imperial Valley air basins and PM exceedances in the El Paso air basin.



Groundbreaking ceremony of water system improvements in Anthony, New Mexico

Enhancing Water Quality

The U.S.-Mexico border region shares numerous transboundary watersheds, with many rivers flowing from Mexico into the U.S., or forming the U.S.-Mexico Border. Four have been identified as high-priority. Untreated wastewater is an environmental health challenge when outdated infrastructure and extreme weather events result in sewage overflows and contaminated stormwater entering these transboundary waterways.

Since 1997, the Border Water Infrastructure Program (BWIP) and binational program partners have supported the construction and/or expansion of infrastructure projects that are eliminating over 350 million gallons a day (mgd) of untreated or inadequately treated sewage discharges.

The Border Program also carries out trash cleanup and waste reduction efforts to address illegal dumping that contaminates transboundary waterways and the Pacific Ocean. To protect existing infrastructure, the Program partners with local businesses in Texas, Arizona and Tamaulipas to properly dispose of Fats, Oils and Grease (FOGs). Green infrastructure projects and trainings in Ambos Nogales reduced impacts from stormwater runoff into the Nogales Wash and the Santa Cruz River in Arizona. Lastly, more than 1,000 community members and municipal staff in southern New Mexico and west Texas received training on the health threats posed by improperly maintained septic tanks.



Household hazardous collection event in Nuevo Laredo, Tamaulipas, Mexico

Promoting Clean Land

When waste materials are improperly disposed of, they can negatively impact our lands, transboundary watersheds and oceans and create habitat for disease-bearing vectors. As the population has grown in border communities, increased amounts of plastics, electronics, tires and other materials have overburdened the waste management infrastructure and services.

The Border Programs have improved collaboration among binational stakeholders to reduce waste through: 1) mitigating the impacts of plastic, tires, and other waste through cleanups and educational outreach and community actions; 2) reducing waste and increasing recovery and reuse of plastic, e-waste, tires, and other materials; and 3) building technical capacity among diverse stakeholders to adopt sustainable materials management practices.

Since 2005, communities in the U.S.-Mexico border region have carried out projects to properly dispose: over 8 million scrap tires, nearly 60,000 tons of household hazardous waste, and 264 tons of electronic waste.

Fostering Environmental Stewardship

Improperly managing hazardous materials can pose transboundary environmental health issues. Challenges such as illegal or improper crossing of hazardous wastes and material at the U.S.-Mexico port-of-entries and the lack of community information on pollutant sources has called for improved enforcement efforts, compliance assistance and environmental stewardship.

Through Border Program efforts, environmental inspectors are now present at ports-of-entry, and information is exchanged between Program partners

on transboundary compliance at binational workshops. Border communities are also benefitting from improved transparency of U.S. and Mexican pollutant discharge data (i.e. the U.S. Toxic Release Inventory [TRI] and the Mexican Registry of Emissions and Transfer of Pollutions [RETC]) reports. In addition, a binational public-private partnership led to enhanced environmental stewardship, through ISO-14000 certification, for over 20 medium-sized companies in border communities.



Ojinaga, Chihuahua Responders received HAZMAT training and equipment (2012)

Strengthening Emergency Response Capability

Binational emergency preparedness and response coordination is critical in the border region, because toxic smoke, contaminated water and other impacts from disasters and incidents pay no heed to local, state or international boundaries. Emergency preparedness efforts — training, exercises, equipment — have been tested in real-life emergencies and led to a more efficient coordinated response along the U.S.-Mexico border. Joint Response Teams (JRT) support these efforts and ensure timely binational reporting of incidents.

Through the Border Program since 2013, more than 10,500 responders have received capacity trainings from over 140 training courses and over 25 binational exercises and 200 drill notifications between the U.S. and Mexico. These actions and resources have made the border region safer for residents, first responders and the environment.

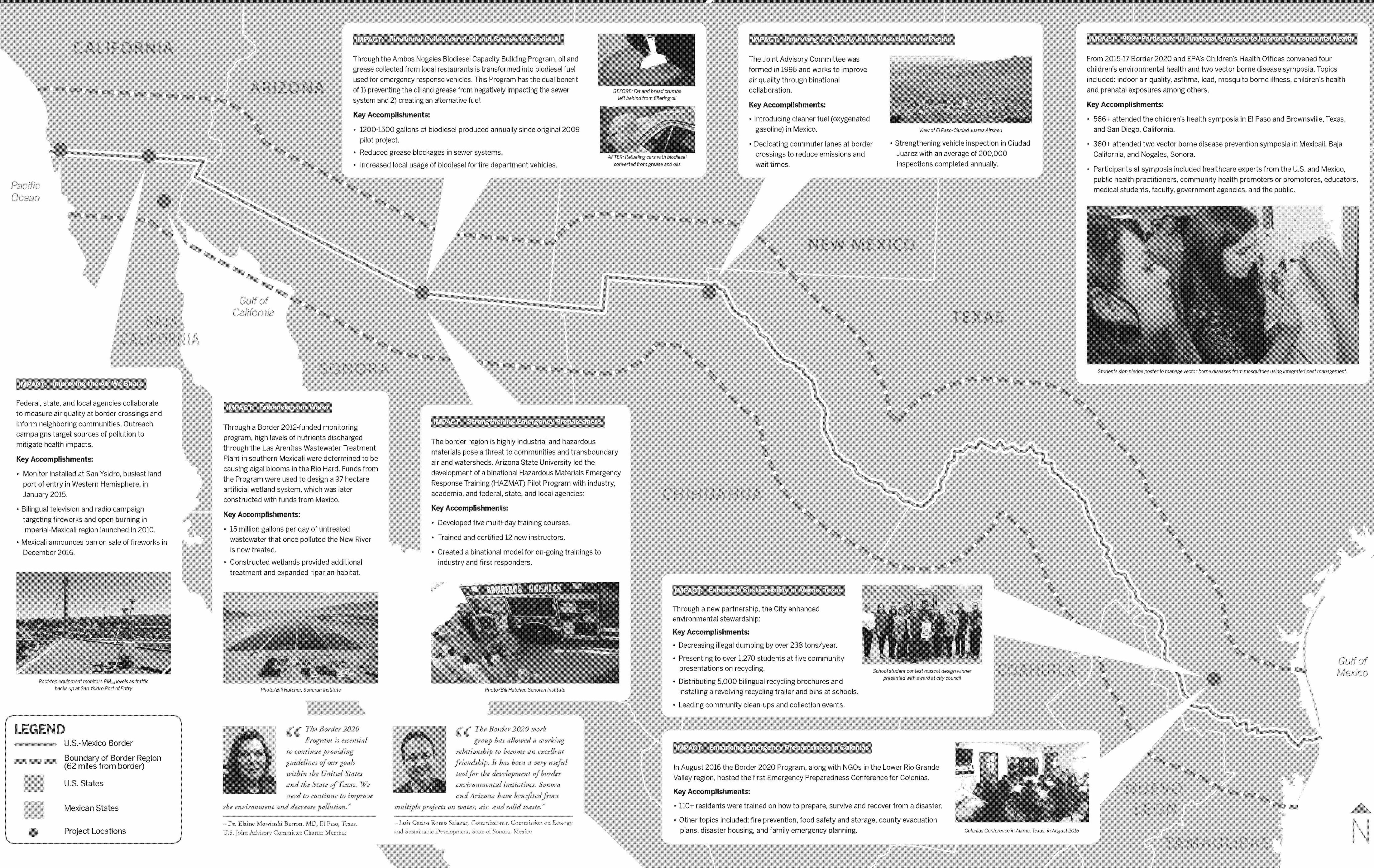


Inspector conducts truck stop inspection in Calexico, CA. Photo/Jessica Rodriguez

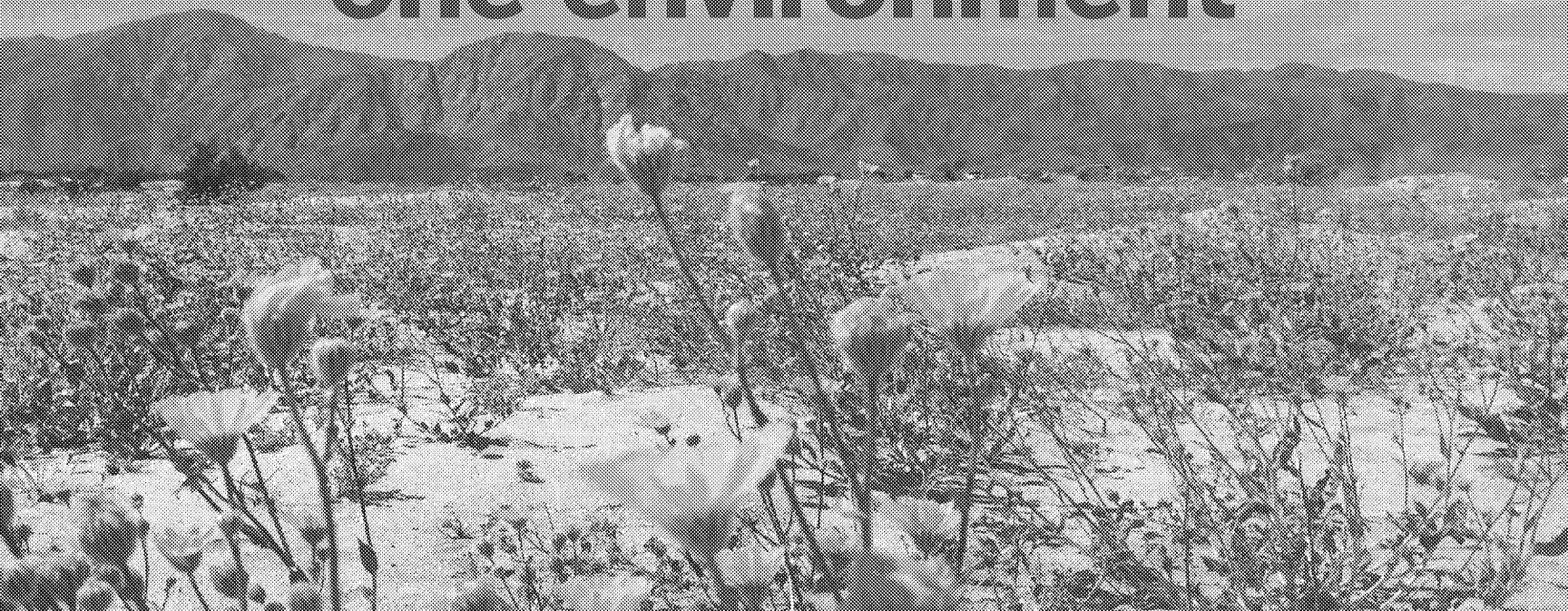
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Partnering Binationally to Achieve Environmental Improvements

Tangible improvements along the entire 2000-mile border through stakeholder-driven projects



Two countries, ten states, twenty-six tribes one environment



Anza-Borrego Desert State Park, California. Photo/Jeremy Bauer



“The Border 2020 Program has allowed us to improve our relationship with EPA and more importantly they are accepting local input. That is important to develop long term relationships and really address U.S. – Mexico Border environmental issues.”

– Dr. Hector F. Gonzalez, Laredo, Texas, Director of the City of Laredo Health Department



“The Border 2020 Program brings people together to better understand and coordinate emergency preparedness and response tactics. The result is first responders and communities on both sides of the Border who are better trained and equipped to protect human health and the environment.”

– Mario Novoa, Fire Chief, Douglas, Arizona



U.S.-Mexico Border 2020 Program

www.epa.gov/border2020